Coomassie brilliant blue R-250, SDS-PAGE and Bradford Assay dye

Overview

Product name
Coomassie brilliant blue R-250, SDS-PAGE and Bradford Assay dye

Description
SDS-PAGE and Bradford Assay dye.

Biological description
Triphenylmethane dye used in SDS-PAGE for the analysis of proteins. The dye molecule binds to proteins to form a protein-dye complex. This complex stabilizes the negatively charged anionic form of the dye producing the blue color, even under acidic conditions. Also used in the Bradford Assay to quantify the concentration of protein in a solution, such as cell lysates.

CAS Number
6104-59-2

Chemical structure

![Chemical structure image]

Properties

Chemical name
\(N\)-[4-[[4-[[4-ethoxyphenyl]amino]phenyl][4-ethyl[[3-sulfophenyl]methyl]amino]phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-\(N\)-ethyl-3-sulfobenzenemethanaminium inner salt monosodium salt

Molecular weight
825.99

Molecular formula
\(C_{45}H_{44}N_{3}NaO_{7}S_{2}\)

Storage instructions
Store at Room Temperature. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview
Soluble in water to 10 mM

Handling
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature.
temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

**Source**

Synthetic

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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